

The effects of WPU on storage stability, rheological properties, and VOCs release of CRMA were investigated. The experimental results indicate that the asphalt with CM ...

When the maximum strain is sufficiently small, the internal structure of the slurry is maintained during this measurement. Storage modulus stands for the stiffness or elasticity of ...

We have obtained the dependences of storage elastic modulus and loss modulus on the load exposure frequency at constant stress. The obtained values of the complex shear ...

At lower frequency, the storage modulus is lesser than the loss modulus; it means viscous property of the media dominates the elastic property. As the frequency increases, the storage ...

The rheological parameters, such as yield stress and storage modulus (G'), are equally important, defining whether the material can produce self-supporting layers (is able to ...

Rheological properties of hydrogels: storage modulus (G') and loss modulus (G'') test results (A,C); $\tan \delta$ test results (B,D) represented as a function of frequency. Void symbols represent ...

The phase transition characteristics of the soft clay during rheological shear tests were analyzed. The rheological experiments and microanalysis were considered to explore the ...

Rheology is the study of the flow and deformation of materials under applied forces, covering both liquids and solids. It examines how materials respond to stress, strain or ...

The presented overview of nonlinear rheological measures found in the literature has resulted in a series of definitions for generalized storage and loss moduli, each of which is equivalent to the ...

In this range, the material's microstructure remains unchanged and as a result, the rheological properties such as the storage and the loss modulus (G' and G'' , respectively) or the complex ...

Rheological assessment and characterization of fresh cement pastes play a key role in designing mixes for a variety of applications, including 3D printing. However, there is ...

Seven hydrogel-based bioinks were selected and tested using the bioink artifact and rheological measurement. Rheological analysis revealed that the high-performing bioinks ...

Storage modulus and rheological properties

Rheological properties (storage modulus, loss modulus and loss factor) of different SSG samples: (a)- (c) Influence of reaction temperature on dynamic rheology; (b)- (f) Influence of boron ...

The samples were characterized via amplitude sweeps (1 Hz, 0.1-100% strain) and frequency sweeps in the linear viscoelastic region (1% strain, 0.1-100 Hz) and the storage ...

Download scientific diagram | (a) The rheological properties (storage modulus G' and loss modulus G'' as a function of oscillatory stress) of the graphene capillary suspension (GCS) ...

We present a basic principle and good practices of the rheology of polymers, particularly for teachers or lecturers at colleges or universities for educational purposes, as well as for ...

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